**FLEX YOUR BRAIN**

**Mini Project**

* Consider a language of your choice do the following task
* Identify the tokens and its specifications
* Identify the syntactic structure of the language
* Specify both lexical and syntactic structure of the language constructs using Lex and Yacc and tools
* Adapt the procedure as given in chapter 6 and appendix-A or your own procedure writing the semantic routines for the generation of intermediate code
* Consider simple expression for the conversion of intermediate code into assembly code
* Use the methods given in section 8.5.3 for the conversion of the assembly code into target machine code for the 8086 processor.
* Identify the exe format of a target processor such as 8086 and fill header portion
* Write the machine code into a binary file following the exe header format
* Execute the exe file and debug if required

The companion CD will assist you to complete the above tasks for a language like C.